UNIQUE IDENTIFICATION (UID)

AMC Brief

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DoD Vision for Item Marking

To implement a policy establishing a strategic imperative for uniquely identifying tangible items relying to the maximum extent practical on international standards and commercial item markings and while not imposing unique government data requirements.

Uniquely identified (UID) tangible items will facilitate item tracking in DoD business systems and provide reliable and accurate data for management, financial, accountability and asset management purposes.

UID OUTCOMES: Why Do It?

Acquisition	Logistics
▪Increase business intelligence ▪Enable paperless Government Furnished Property Management ▪Leverage commercial technologies and practices ▪Increase supply chain visibility ▪Create a common language of business	▪Increase systems/equipment operational availability ▪Lower costs of managing assets ▪Improve end to end asset visibility ▪Reliability and maintainability info on each item through life ▪Improve supply chain efficiency
Accounting and Finance	**Joint Forces**
▪Enable clean audit opinion ▪Reduce late interest penalties	▪Increase in-transit visibility ▪Decrease frustrated freight ▪Enable coalition support ▪Improve data quality and interoperability

How we are solving

Data Elements

- ✓ **Minimum unambiguous set**
- ✓ **Serialization within enterprise of original part number**
- ✓ **DoD UID Equivalents**

Data Standards

- ✓ **Commercial Standards for UID syntax & semantics**
- ✓ **DoD Collaborative Solution**
- ✓ **Data carrier = Data Matrix**

Data Capture

- ✓ **UID data capture at acceptance**
- ✓ **Use Wide Area Work Flow**
- ✓ **Record in DoD UID Registry**
- ✓ **Interface with AISs**

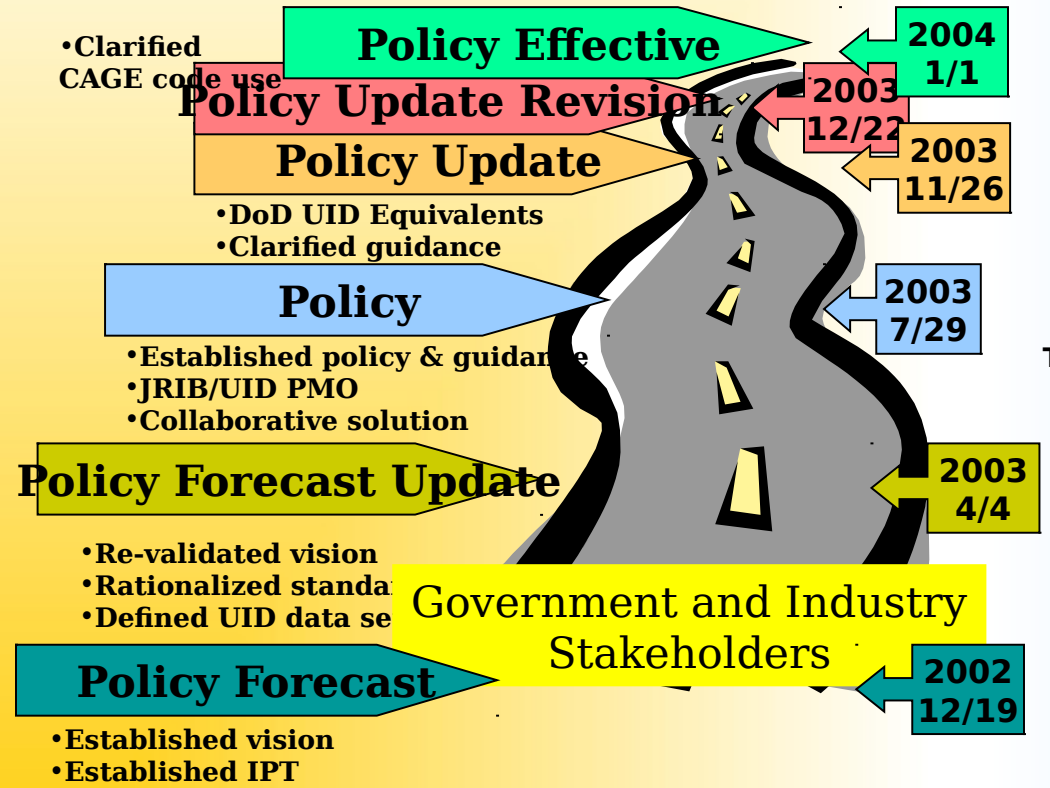
Item Identification & Valuat

DFARS Interim Rule requires DoD UID or DoD UID Equivalents for:

- ✓ **Items > $5,000**
- ✓ **Items < $5,000 as directed by requiring activity**
- ✓ **Items embedded in end items**

What has been our plan

UID Policy



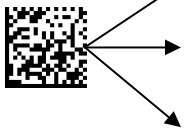
Contracting

- ☑ July 29, 2003 - DoD Policy Memorandum Issued
- August 6, 2003 - DFARS Case Opened
- ☑ October 10, 2003 – DFARS Interim Rule Issued
- ☑ November 10, 2003 – Public Comments Due
- ☑ December 30, 2003 – 2nd Interim Rule Issued
- ☑ January 1, 2004 – Effective Date
- ☑ March 1, 2004 – Public Comments Due
- ☑ The Interim Rule Adds Mandatory Requirement for -
  - ▪Contractors to provide *unique identification* for items delivered to DoD, through the use of item identification marking.
  - ▪Contracts to provide for identification of the Government's *acquisition cost* of all items built or acquired by the contractor and subsequently delivered to DoD under the contract.

UID: How is it Constructed?

The UID shall be derived from its discrete component data elements – the UID is not required to be marked on the item as a separate data element

From the Data Matrix:



Enterprise Identifier = 0CVA5 (CAGE Code)

Original Part Number = 1234

Serial Number = **674A36458**

The UID can be derived using the IAC for CAGE, which is "D":

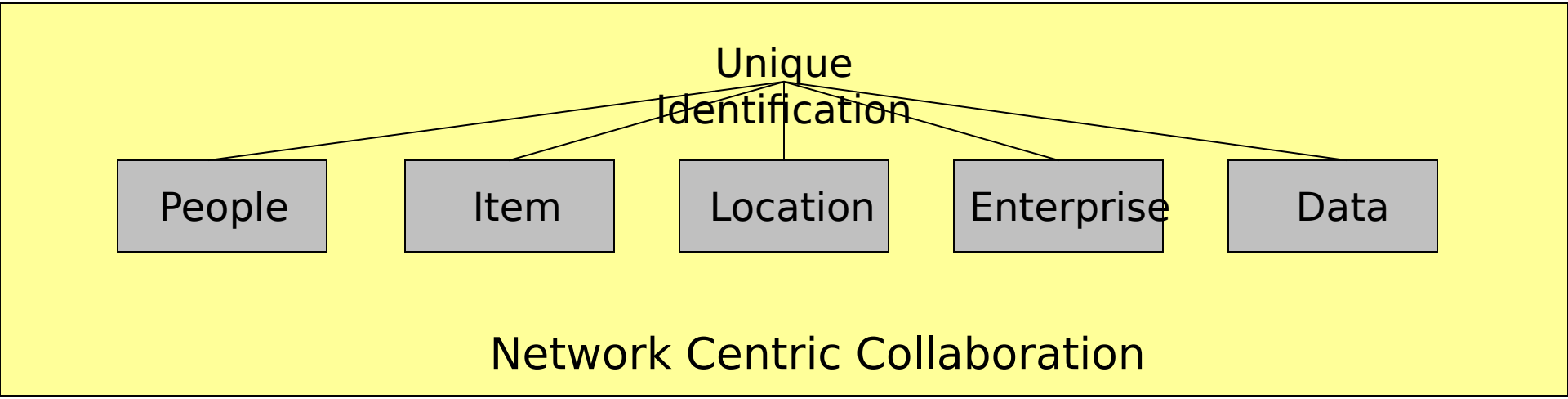
UID Construct 1	UID Construct 2
If the Serial Number is Unique within the Enterprise Identifier	*If the Serial Number is Not Unique within the Enterprise Identifier but is Unique within the Part Number*
D0CVA5674A36458	**D0CVA51234674A36458**

UID Policy Overview

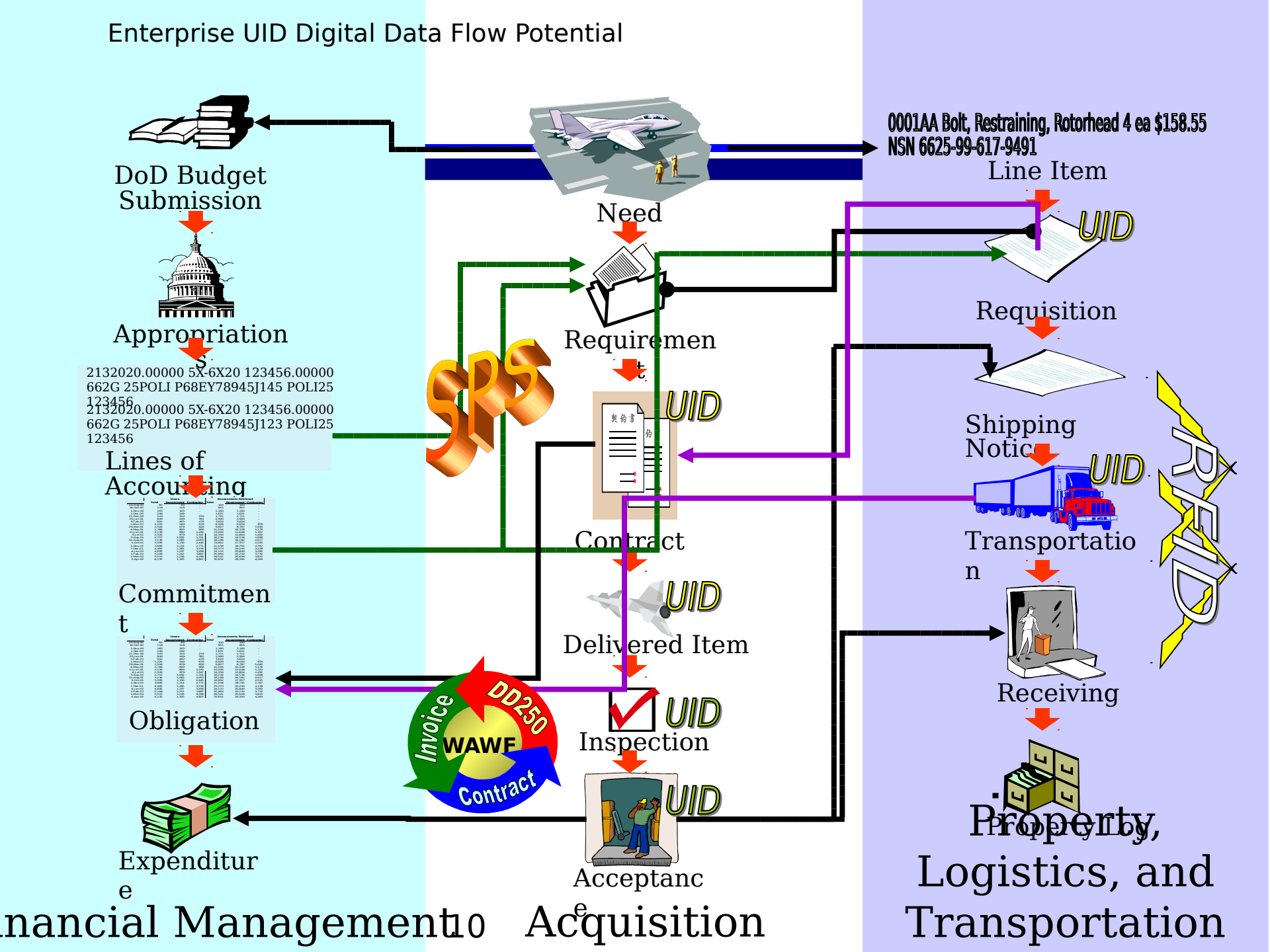
- Final UID policy released on July 29th established UID as a mandatory DoD requirement on all solicitations issued on or after January 1, 2004.
  - Policy Updates issued November 26, 2003 and December 22, 2003.
- UID is required for all property items delivered to the Government if:
  - Acquisition cost is more than $5,000
  - Item is serially managed, mission essential, or controlled inventory piece of equipment or reparable; or a consumable item or material requiring permanent identification
  - Item is a component of a delivered item and PM requires UID
  - UID or DoD-recognized equivalent is available
- Wide Area Workflow (WAWF) will be modified to capture UID and WAWF will be a mandatory payment requirement no later than January 1, 2005

UID & Network Centric Collaboration

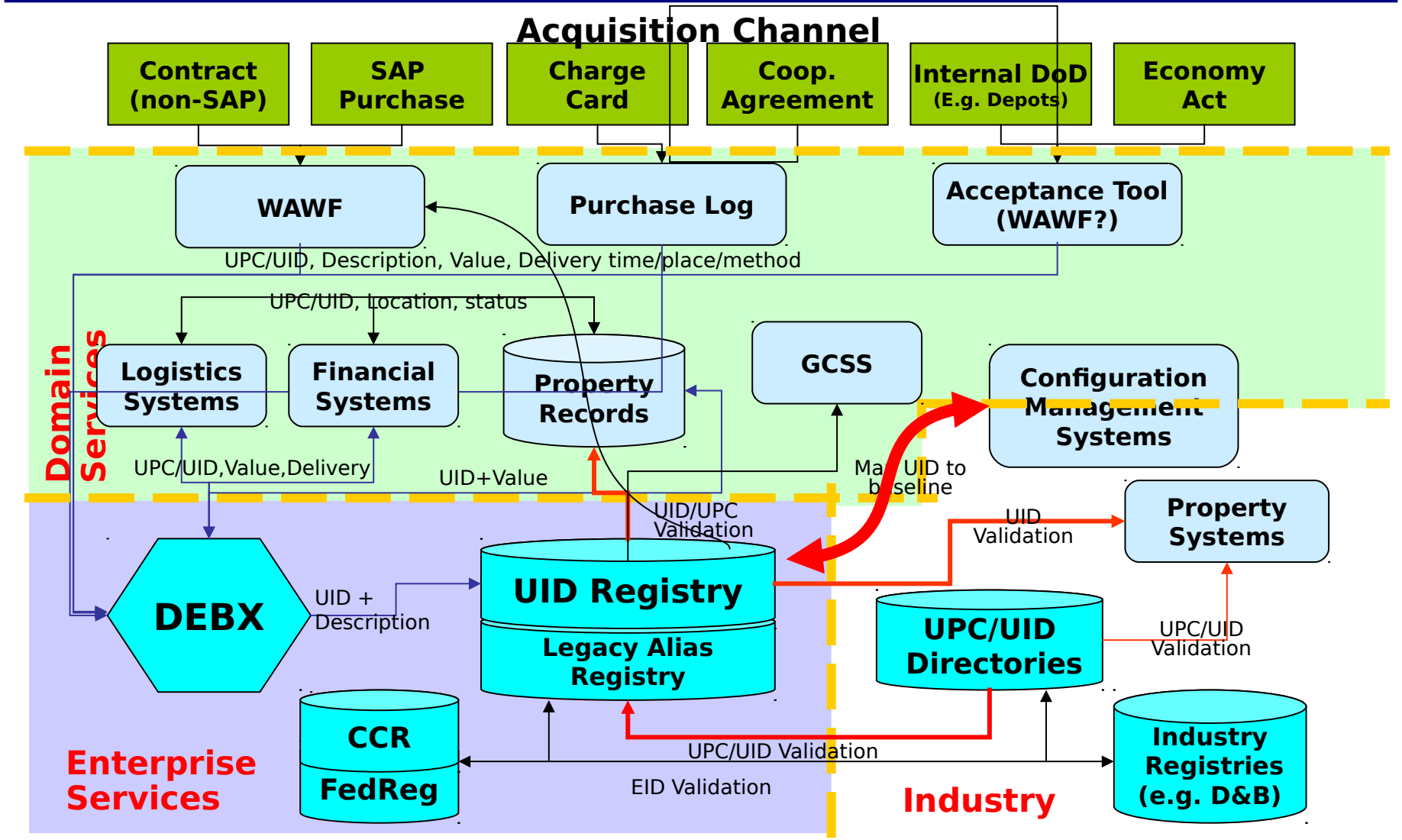
Industry



U.S. Agencies & External Governments (e.g., UK, Australian, Canadian, Dutch)


Enterprise UID Digital Data Flow Potential
DoD Budget Submission
Appropriations
2132020.00000 5X-6X20 123456.00000 662G 25POLI P68EY78945J145 POLI25 123456
2132020.00000 5X-6X20 123456.00000 662G 25POLI P68EY78945J123 POLI25 123456
Lines of Accounting
Commitment
Obligation
Expenditure
Need
Requirement
SPS
UID
Contract
Delivered Item
Inspection
Acceptance
WAWF
Invoice
DD250
Contract
0001AA Bolt, Restraining, Rotorhead 4 ea $158.55
NSN 6625-99-617-9491
Line Item
Requisition
Shipping Notice
Transportation
Receiving
Property Log
RFID
Financial Management
10
Acquisition
Property, Logistics, and Transportation

UID Data Capture and Reuse



UID: Database Data Transmission

The contractor is required to transmit, upon shipment notification, UID database data in addition to the data in the Data Matrix symbol and in addition to any data previously required during shipment notification

Database data required for UID includes:

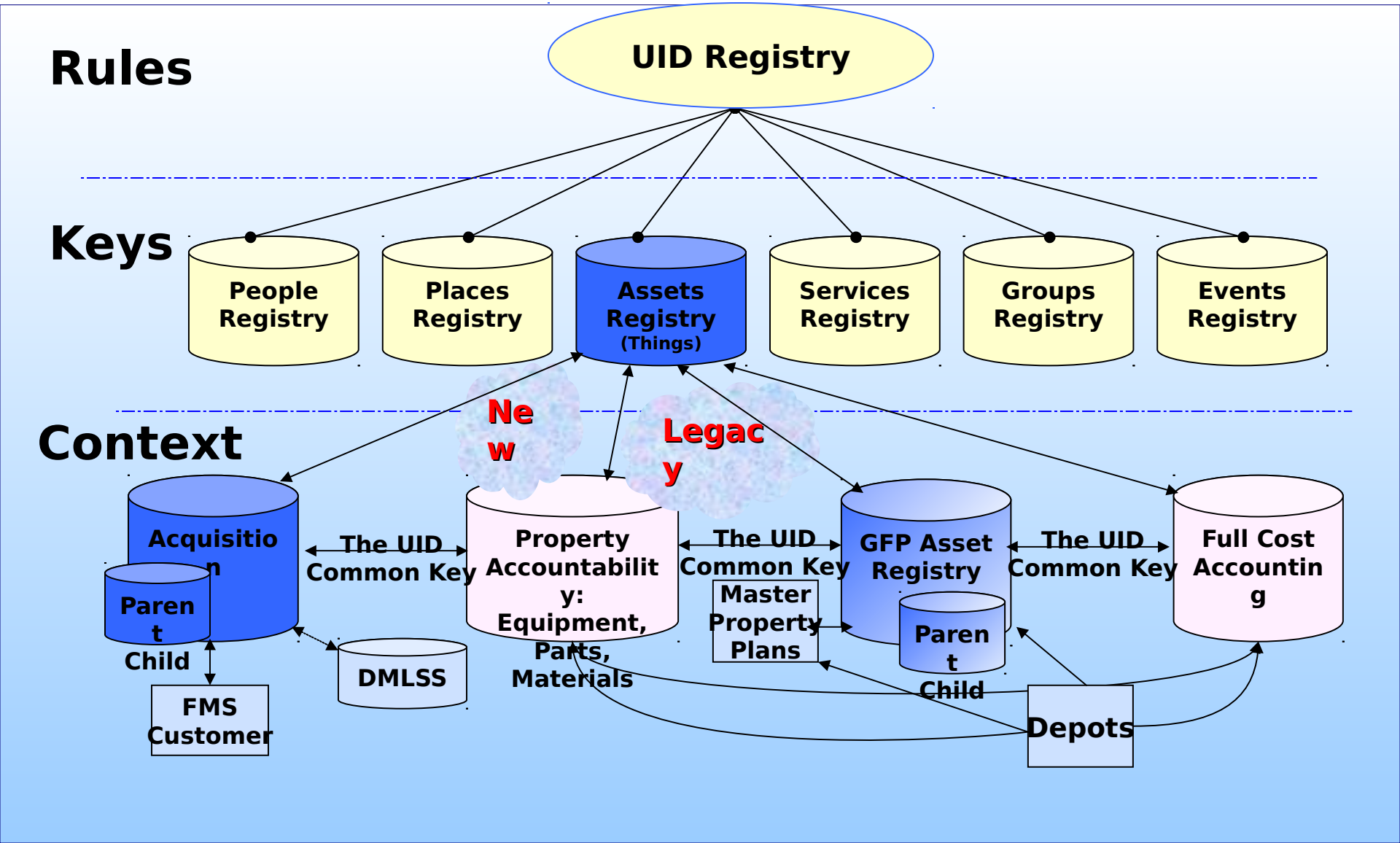
End Item Database Data (15)

- UID (Concatenated)
- Descriptive Data
  - UID Data Elements (3)
  - Issuing Agency Code
  - UID Type
  - Item Description
  - Unit of measure
- Acquisition Data
  - Contractor
  - Contract Number
  - CLIN/SLIN/ELIN
  - Price
  - Acceptance Code (identifies acceptor)
  - Acceptance Date
  - Ship to code

Embedded Items of End Items (10)

- UID (Concatenated)
- Descriptive Data
  - UID Data Elements (3)
  - Issuing Agency Code
  - UID Type
  - Item Description
  - Unit of measure
- Parent UID as of delivery date
- GFP flag

UID Data Retrieval Concept



Build on Emerging UID Strategies

- **Corporate and Plant-wide single processes (Engine manufacturers initially)**
- Corporate top-down strategies (Lockheed; Honeywell; Raytheon)
- Pilot programs (JDAM; CH-47)
- Program level (Blackhawk; V-22)
- Small business (Central labeling capability; marking by prime contractor or government)
- Engineering drawings best business practices
- Standard flow-down clause to suppliers
- Legacy item data requirements

Corporate Roadmaps

Corporate DoD

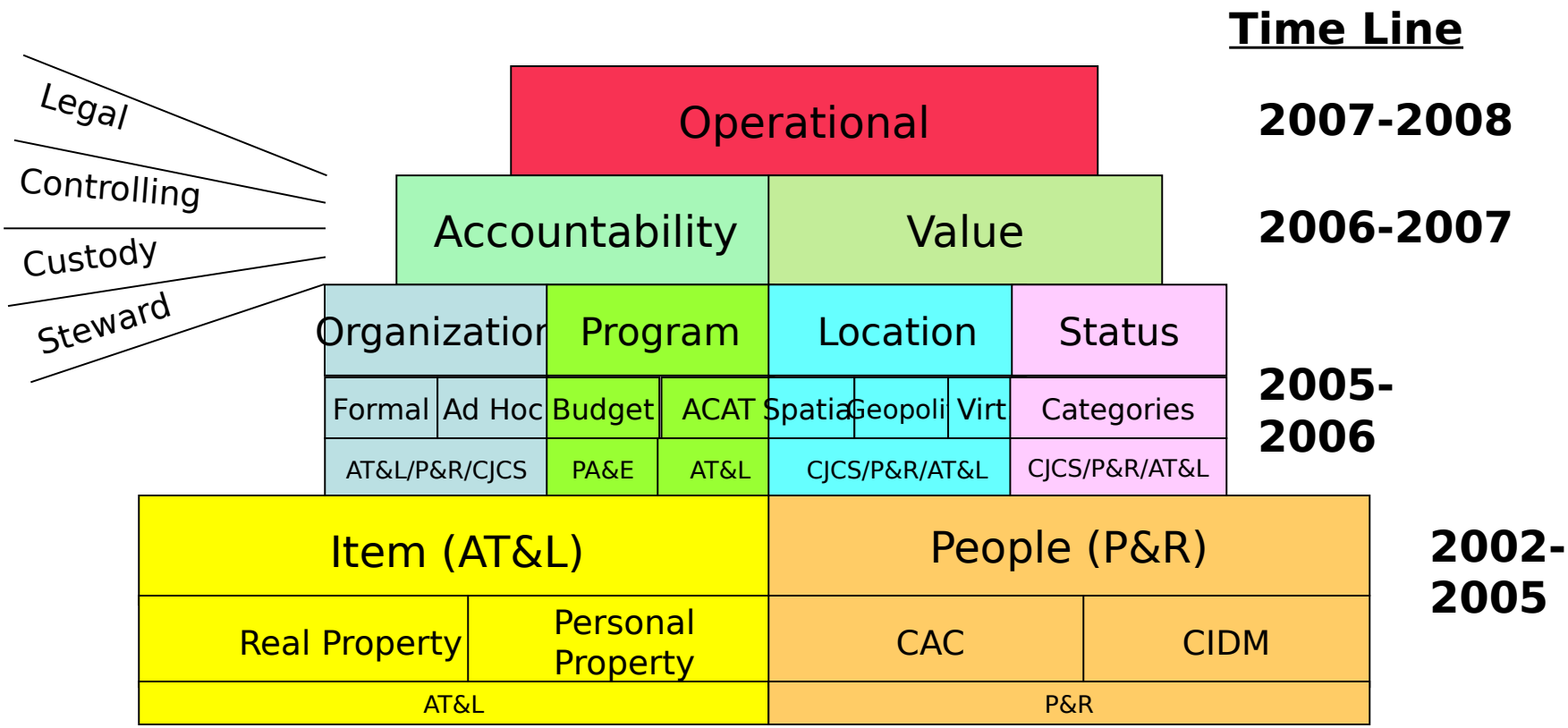
- Joint Aeronautical Commanders Group
- Joint Ordnance Commanders Group
- Maintenance Master Plan for Depots
- Data Roadmap
- DoD Information Systems Roadmap
- UID CONOPS
- DCMA Roadmap
  - GFP
  - QA
  - Receipt & Acceptance

Components

- Distribution Centers & Depots
- Inventory Control Points
- Components Roadmaps

Industry (Small/Medium/Large Companies)

Data Roadmap



CAC – Common Access Card
CIDM – Collaborative IDentity Management

UID Policy Implementation Timeline

Policy

- UID Required for all New Solicitations - 01 January 2004
- RFID policy - July 2004
- Final UID DFAR Case -August 2004
- Implementation for Government Furnished Property - January 2005
- UID Required for all Depot Manufactured Items -January 2005
- Legacy UID Policy -Being Forcasted

ISO/IEC 15434 Change Request

- ATA/UID Guidance -Sept 2004
- ISO/IEC 15434 amendment issued - June 2005

Contact Information

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A variety of UID background materials and previous UID policy memos can be found at

www.uniqueid.org